

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Chiaki Fujii; Hisatoshi Mori; : Art Unit:  
Koichi Kameyama : Examiner:  
Serial No.: To be assigned :  
Filed: Herewith :  
FOR: RECORDING AND REPRODUCING :  
APPARATUS

## PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

S I R :

Prior to examination, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 6, line 16 with the following:

One aspect of the present invention is a recording and reproducing apparatus for receiving program data including video data and/or voice data and recording and/or reproducing said program data, comprising:

Please replace the paragraph beginning at page 7, line 12 with the following:

Another aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 7, line 20 with the following:

Still another aspect of the present invention is a recording and reproducing apparatus for receiving program data including video data and/or voice data and recording and/or reproducing said program data, comprising:

Please replace the paragraph beginning at page 8 line 18 with the following:

Yet still another aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 9, line 3 with the following:

Still yet another aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 9, line 10 with the following:

A further aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 9, line 17 with the following:

A still further aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 10, line 3 with the following:

A yet further aspect of the present invention is a recording and reproducing apparatus for receiving program data including video data and/or voice data and recording and/or reproducing said program data, comprising:

Please replace the paragraph beginning at page 11, line 1 with the following:

A still yet further aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 11, line 10 with the following:

An additional aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 11, line 16 with the following:

A still additional aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 12, line 1 with the following:

A yet additional aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 12, line 9 with the following:

A still yet additional aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 12, line 14 with the following:

A supplementary aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 12, line 19 with the following:

A still supplementary aspect of the present invention is the recording and reproducing s,

Please replace the paragraph beginning at page 13, line 3 with the following:

A yet supplementary aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 13, line 8 with the following:

TOPT-3283US

A still yet supplementary aspect of the present invention is the recording and reproducing apparatus, further comprising notifying means of notifying a user of operating contents of said recording and reproducing apparatus,

Please replace the paragraph beginning at page 13, line 16 with the following:

Another aspect of the present invention is the recording and reproducing apparatus, further comprising an input unit for receiving an input operation from a user,

Please replace the paragraph beginning at page 14, line 1 with the following:

Still another aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 14, line 6 with the following:

Yet still another aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 14, line 11 with the following:

Still yet another aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 14, line 16 with the following:

A further aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 14, line 21 with the following:

A still further aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 15, line 3 with the following:

TOP SECRET

A yet further aspect of the present invention is the recording and reproducing apparatus, further comprising image quality changing means of changing an image quality of program data to be recorded in said temporary saving area and/or said long-term saving area.

Please replace the paragraph beginning at page 15, line 9 with the following:

A still yet further aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 15, line 16 with the following:

An additional aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 15, line 22 with the following:

A still additional aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 16, line 5 with the following:

A yet additional aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 16, line 11 with the following:

A still yet additional aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 16, line 18 with the following:

A supplementary aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 17, line 7 with the following:

A still supplementary aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 17, line 12 with the following:

A yet supplementary aspect of the present invention is the recording and reproducing apparatus, further comprising a scene change detecting unit for detecting a change of scenes in program data of identical programs or programs different from each other,

Please replace the paragraph beginning at page 18, line 1 with the following:

A still yet supplementary aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 18, line 6 with the following:

Another aspect of the present invention is the recording and reproducing apparatus,

Please replace the paragraph beginning at page 18, line 11 with the following:

Still another aspect of the present invention is a recording and reproducing method for receiving program data including video data and/or voice data and recording and/or reproducing said program data, comprising :

Please replace the paragraph beginning at page 19, line 6 with the following:

Yet still another aspect of the present invention is a recording and reproducing method for receiving program data including video data and/or voice data and recording and/or reproducing said program data, comprising:

Please replace the paragraph beginning at page 20, line 3 with the following:

Still yet another aspect of the present invention is a recording and reproducing method for receiving program data including video data and/or voice

data and recording and/or reproducing said program data, comprising:

Please replace the paragraph beginning at page 21, line 1 with the following:

A further aspect of the present invention is a program for causing a computer to function as all or any of the record reproducing means of at least performing recording, reproduction or time shift reproduction of said program data in said temporary saving area and/or said long-term saving area of the recording and reproducing apparatus.

Please replace the paragraph beginning at page 21, line 8 with the following:

A still further aspect of the present invention is a program for causing a computer to function as all or any of the record reproducing means of at least performing recording, reproduction or time shift reproduction of said program data in said temporary saving area and/or said long-term saving area of the recording and reproducing apparatus.

Please replace the paragraph beginning at page 21, line 15 with the following:

A yet further aspect of the present invention is a program for causing a computer to function as all or any of the record reproducing means of setting said temporary saving area and said long-term saving area on said recording area and performs at least recording, reproduction or time shift reproduction of said program data in said temporary saving area or said long-term saving area of the recording and reproducing apparatus.

Please replace the paragraph beginning at page 21, line 23 with the following:

A still yet further aspect of the present invention is a medium to store programs for causing a computer to function as all or any of the record reproducing means of at least performing recording, reproduction or time shift reproduction of said program data in said temporary saving area and/or said long-term saving area of the recording and reproducing apparatus, wherein said medium is enable to be processed by said computer.

Please replace the paragraph beginning at page 22, line 7 with the following:

An additional aspect of the present invention is a medium to store programs for causing a computer to function as all or any of the record reproducing means of at least performing recording, reproduction or time shift reproduction of said program data in said temporary saving area and/or said long-term saving area of the recording and reproducing apparatus, wherein said medium is enable to be processed by said computer.

Please replace the paragraph beginning at page 22, line 15 with the following:

A still additional aspect of the present invention is a medium to store programs for causing a computer to function as all or any of the record reproducing means of setting said temporary saving area and said long-term saving area on said recording area and performs at least recording, reproduction or time shift reproduction of said program data in said temporary saving area or said long-term saving area of the recording and reproducing, wherein said medium is enable to be processed by said computer.

IN THE CLAIMS:

Please amend the claims as follows:

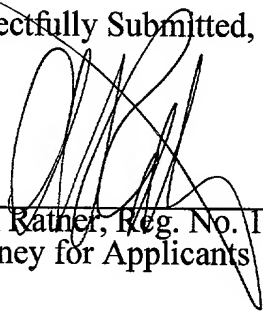
- 1           22.    (Amended) The recording and reproducing apparatus according to
- 2   claim 20,
- 3           wherein said temporary saving file has temporary saving files in a number
- 4   of programs that a user has viewed.



1           31. (Amended) The recording and reproducing apparatus according to  
2 any one of claim 28,

3           wherein the end of said program is defined based on an EPG (Electronic  
4 Program Guide).

Respectfully Submitted,

  
\_\_\_\_\_  
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Attorney for Applicants

AR/jam

Dated: October 30, 2001

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D.C. 20231.

  
\_\_\_\_\_  
Kathleen Libby

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

Specification at page 6, line 16:

~~The 1st invention~~ One aspect of the present invention is a recording and reproducing apparatus for receiving program data including video data and/or voice data and recording and/or reproducing said program data, comprising:

Specification at page 7, line 12:

~~The 2nd invention~~ Another aspect of the present invention is the recording and reproducing apparatus ~~according to 1st invention,~~

Specification at page 7, line 20:

~~The 3rd invention~~ Still another aspect of the present invention is a recording and reproducing apparatus for receiving program data including video data and/or voice data and recording and/or reproducing said program data, comprising:

Specification at page 8, line 18:

~~The 4th invention~~ Yet still another aspect of the present invention is the recording and reproducing apparatus ~~according to 3rd invention,~~

Specification at page 9, line 3:

~~The 5th invention~~ Still yet another aspect of the present invention is the recording and reproducing apparatus ~~according to 3rd invention,~~

Specification at page 9, line 10:

~~The 6th invention~~ A further aspect of the present invention is the recording and reproducing apparatus ~~according to 3rd invention,~~

Specification at page 9, line 17:

~~The 7th invention~~ A still further aspect of the present invention is the recording and reproducing apparatus ~~according to 3rd invention,~~

Specification at page 10, line 3:

~~The 8th invention~~ A yet further aspect of the present invention is a recording and reproducing apparatus for receiving program data including video data and/or voice data and recording and/or reproducing said program data, comprising:

Specification at page 11, line 1:

~~The 9th invention~~ A still yet further aspect of the present invention is the recording and reproducing apparatus ~~according to 8th invention,~~

Specification at page 11, line 10:

~~The 10th invention~~ An additional aspect of the present invention is the recording and reproducing apparatus ~~according to 8th invention,~~

Specification at page 11, line 16:

~~The 11th invention~~ A still additional aspect of the present invention is the recording and reproducing apparatus ~~according to any one of 1st, 3rd and 8th invention,~~

Specification at page 12, line 1:

~~The 12th invention~~ A yet additional aspect of the present invention is the recording and reproducing apparatus ~~according to 11th invention,~~

Specification at page 12, line 9:

~~The 13th invention~~ A still yet additional aspect of the present invention is the recording and reproducing apparatus ~~according to 11th invention,~~

Specification at page 12, line 14:

~~The 14th invention~~ A supplementary aspect of the present invention is the recording and reproducing apparatus ~~according to 11th invention,~~

Specification at page 12, line 19:

~~The 15th invention~~ A still supplementary aspect of the present invention is the recording and reproducing apparatus ~~according to any one of 1st, 3rd and 8th inventions,~~

Specification at page 13, line 3:

~~The 16th invention~~ A yet supplementary aspect of the present invention is the recording and reproducing apparatus ~~according to 15th invention,~~

Specification at page 13, line 8:

~~The 17th invention~~ A still yet supplementary aspect of the present invention is the recording and reproducing apparatus ~~according to 15th invention,~~ further comprising notifying means of notifying a user of operating contents of said recording and reproducing apparatus,

Specification at page 13, line 16:

~~The 18th invention~~ Another aspect of the present invention is the recording and reproducing apparatus ~~according to 15th invention,~~ further comprising an input unit for receiving an input operation from a user,

Specification at page 14, line 1:

~~The 19th invention~~ Still another aspect of the present invention is the recording and reproducing apparatus ~~according to 15th invention,~~

Specification at page 14, line 6:

~~The 20th invention~~ Yet still another aspect of the present invention is the recording and reproducing apparatus ~~according to any one of 1st, 3rd and 8th inventions,~~

Specification at page 14, line 11:

~~The 21st invention~~ Still yet another aspect of the present invention is the recording and reproducing apparatus ~~according to 20th invention,~~

Specification at page 14, line 16:

~~The 22nd invention~~ A further aspect of the present invention is the recording and reproducing apparatus ~~according to 20th or 21st invention,~~

Specification at page 14, line 21:

~~The 23rd invention~~ A still further aspect of the present invention is the recording and reproducing apparatus ~~according to 21st invention,~~

Specification at page 15, line 3:

~~The 24th invention~~ A yet further aspect of the present invention is the recording and reproducing apparatus ~~according to any one of 1st, 3rd and 8th inventions,~~ further comprising image quality changing means of changing an image quality of program data to be recorded in said temporary saving area and/or said long-term saving area.

Specification at page 15, line 9:

~~The 25th invention~~ A still yet further aspect of the present invention is the recording and reproducing apparatus ~~according to 24th invention,~~

Specification at page 15, line 16:

~~The 26th invention~~ An additional aspect of the present invention is the recording and reproducing apparatus ~~according to 25th invention,~~

Specification at page 15, line 22:

~~The 27th invention~~ A still additional aspect of the present invention is the recording and reproducing apparatus ~~according to 24th invention,~~

Specification at page 16, line 5:

~~The 28th invention~~ A yet additional aspect of the present invention is the recording and reproducing apparatus ~~according to 27th invention,~~

Specification at page 16, line 11:

~~The 29th invention~~ A still yet additional aspect of the present invention is the recording and reproducing apparatus ~~according to 27th invention,~~

Specification at page 16, line 18:

~~The 30th invention~~ A supplementary aspect of the present invention is the recording and reproducing apparatus ~~according to 24th invention,~~

Specification at page 17, line 7:

~~The 31st invention~~ A still supplementary aspect of the present invention is the recording and reproducing apparatus ~~according to any one of 28th to 30th inventions,~~

Specification at page 17, line 12:

~~The 32nd invention~~ A yet supplementary aspect of the present invention is the recording and reproducing apparatus ~~according to 24th invention,~~ further comprising a scene change detecting unit for detecting a change of scenes in program data of identical programs or programs different from each other,

Specification at page 18, line 1:

~~The 33rd invention~~ A still yet supplementary aspect of the present invention is the recording and reproducing apparatus ~~according to 1st or 8th inventions,~~

Specification at page 18, line 6:

~~The 34th invention~~ Another aspect of the present invention is the recording and reproducing apparatus ~~according to 3rd or 8th inventions,~~

Specification at page 18, line 11:

~~The 35th invention~~ Still another aspect of the present invention is a recording and reproducing method for receiving program data including video data and/or voice data and recording and/or reproducing said program data, comprising :

Specification at page 19, line 6:

~~The 36th invention~~ Yet still another aspect of the present invention is a recording and reproducing method for receiving program data including video data and/or voice data and recording and/or reproducing said program data, comprising:

Specification at page 20, line 3:

~~The 37th invention~~ Still yet another aspect of the present invention is a recording and reproducing method for receiving program data including video data and/or voice data and recording and/or reproducing said program data, comprising:

Specification at page 21, line 1:

~~The 38th invention~~ A further aspect of the present invention is a program for causing a computer to function as all or any of the record reproducing means of at least performing recording, reproduction or time shift reproduction of said program data in said temporary saving area and/or said long-term saving area of the recording and reproducing apparatus ~~according to 1st invention.~~

Specification at page 21, line 8:

~~The 39th invention~~ A still further aspect of the present invention is a program for causing a computer to function as all or any of the record reproducing means of at least performing recording, reproduction or time shift reproduction of said program data in said temporary saving area and/or said long-term saving area of the recording and reproducing apparatus ~~according to 3rd invention.~~

Specification at page 21, line 15:

~~The 40th invention~~ A yet further aspect of the present invention is a program for causing a computer to function as all or any of the record reproducing means of setting said temporary saving area and said long-term saving area on said recording area and performs at least recording, reproduction or time shift reproduction of said program data in said temporary saving area or said long-term saving area of the recording and reproducing apparatus ~~according to 8th invention.~~

Specification at page 21, line 23:

~~The 41st invention~~ A still yet further aspect of the present invention is a medium to store programs for causing a computer to function as all or any of the record reproducing means of at least performing recording, reproduction or time shift reproduction of said program data in said temporary saving area and/or said long-term saving area of the recording and reproducing apparatus ~~according to 1st invention~~, wherein said medium is enable to be processed by said computer.

Specification at page 22, line 7:

~~The 42nd invention~~ An additional aspect of the present invention is a medium to store programs for causing a computer to function as all or any of the record reproducing means of at least performing recording, reproduction or time shift reproduction of said program data in said temporary saving area and/or said long-term saving area of the recording and reproducing apparatus ~~according to 3rd invention~~, wherein said medium is enable to be processed by said computer.

Specification at page 22, line 15:



~~The 43rd invention~~ A still additional aspect of the present invention is a medium to store programs for causing a computer to function as all or any of the record reproducing means of setting said temporary saving area and said long-term saving area on said recording area and performs at least recording, reproduction or time shift reproduction of said program data in said temporary saving area or said long-term saving area of the recording and reproducing ~~apparatus according to 8th invention~~, wherein said medium is enable to be processed by said computer.

IN THE CLAIMS:

1           22.    (Amended) The recording and reproducing apparatus according to  
2 claim 20 ~~or 21~~,

3           wherein said temporary saving file has temporary saving files in a number  
4 of programs that a user has viewed.

1           31.    (Amended) The recording and reproducing apparatus according to  
2 any one of claims 28 ~~to 30~~,

3           wherein the end of said program is defined based on an EPG (Electronic  
4 Program Guide).